S.C. Department of Health and Environmental Control

Bureau of Air Quality
Synthetic Minor Construction Permit

Swiss Krono SC, LLC
810 Technology Drive
Barnwell, South Carolina 29812
Barnwell County

Pursuant to the provisions of the *Pollution Control Act*, Sections 48-1-50(5) and 48-1-110(a), the 1976 *Code of Laws of South Carolina*, as amended, and *South Carolina Regulation 61-62*, *Air Pollution Control Regulations and Standards*, the Bureau of Air Quality authorizes the construction of this facility and the equipment specified herein in accordance with the plans, specifications, and other information submitted in the construction permit application received on October 21, 2016, as amended. All official correspondence, plans, permit applications, and written statements are an integral part of the permit. Any false information or misrepresentation in the application for a construction permit may be grounds for permit revocation.

The construction and subsequent operation of this facility is subject to and conditioned upon the terms, limitations, standards, and schedules contained herein or as specified by this permit and its accompanying attachments.

Permit Number: **0300-0031-CM**
Issue Date: **DRAFT**

Elizabeth J. Basil, Director
Engineering Services Division
Bureau of Air Quality

A. PROJECT DESCRIPTION

Permission is hereby granted to construct an medium density fiber board plant and associated equipment. Additionally, a new flooring line (Flooring Line No. 4) will also be constructed.

B.1 EQUIPMENT

Equipment ID	Equipment Description	Control Device ID	Emission Point ID
E1	Chip Mill	CD-CY 200.001	90.200
E2	Plant Start up Cyclone	CD-CY 90.001	90.090
E3-1	Dryer and Board Cooler	CD-RTO 100.001	90.100
E3-2a	Energy Island – Suspension Burner	CD-SNCR 100.001a CD-ESP 100.002	90.100
E3-2b	Energy Island – Grate Burner	CD-SNCR 100.001b CD-ESP 100.002	90.100
E4	Forming Line	CD-BF 110.001	90.110
E5	Fiber Reject System	CD-BF 150.001	90.150
E6	Board Sawing and Sanding	CD-BF 130.001 CD-CF 130.002 (inherent) CD-CF 130.003 (inherent)	90.130
E7	Sander Dust Transfer	CD-CF 170.001 (inherent)	90.170
E8	Saw Dust Transfer	CD-CF 160.001 (inherent)	90.160
E9	Existing Flooring Plant Saw Dust Transfer System-1	CD-CF 190.00 (inherent)1	90.190
E10	Forming Line Transfer	CD-CF 180.001 (inherent)	90.180
E11	Continuous Board Press	CD-SC 120.001 CD-RTO 120.002	90.120
E13	Existing Flooring Plant Saw Dust Transfer System 2	CD-CF 230.001 (inherent)	90.230
E14	No. 4 Flooring Line	CD-BF 60.094	90.060
E15	Trim Saw Operations	CD-CF 140.001 (inherent)	90.140
E16	Diagonal Saw Operations	CD-CF 210.001 (inherent)	90.210

B.2 CONTROL DEVICES

Control Device ID	Control Device Description	Pollutant(s) Controlled
CD-CY 200.001	Cyclone (Inherent)	PM, PM_{10}, $PM_{2.5}$
CD-CY 90.001	Cyclone (Inherent)	PM, PM_{10}, $PM_{2.5}$
CD-RTO 100.001	RTO Oxidizer	PM, PM_{10}, $PM_{2.5}$, CO, VOC, HAPs
CD-SNCR 100.001	Selective Non Catalytic Reduction	NOx
CD-ESP 100.002	Electrostatic Precipitator	PM, PM_{10}, $PM_{2.5}$

B.2 CONTROL DEVICES

Control Device ID	Control Device Description	Pollutant(s) Controlled
CD-BF 110.001	Baghouse	PM, PM_{10}, $PM_{2.5}$
CD-BF 150.001	Baghouse	PM, PM_{10}, $PM_{2.5}$
CD-BF 130.001	Baghouse	PM, PM_{10}, $PM_{2.5}$
CD-CF 170.001	Cyclo- Filter (Inherent)	PM, PM_{10}, $PM_{2.5}$
CD-CF 160.001	Cyclo- Filter (Inherent)	PM, PM_{10}, $PM_{2.5}$
CD-CF 190.001	Cyclo- Filter (Inherent)	PM, PM_{10}, $PM_{2.5}$
CD-CF 180.001	Cyclo- Filter (Inherent)	PM, PM_{10}, $PM_{2.5}$
CD-SC 120.001	Scrubber	PM, PM_{10}, $PM_{2.5}$
CD-RTO 120.002	RTO Oxidizer	PM, PM_{10}, $PM_{2.5}$, CO, VOC, HAPs
CD-CF 230.001	Cyclo- Filter (Inherent)	PM, PM_{10}, $PM_{2.5}$
CD-BF 60.094	Baghouse	PM, PM_{10}, $PM_{2.5}$
CD-CF 140.001	Cyclo- Filter (Inherent)	PM, PM_{10}, $PM_{2.5}$
CD-CF 210.001	Cyclo- Filter (Inherent)	PM, PM_{10}, $PM_{2.5}$

C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
C.1	**Equipment/Control Device ID:** All (S.C. Regulation 61-62.1, Section II.J.1.g) A copy of the Department issued construction and/or operating permit must be kept readily available at the facility at all times. The owner or operator shall maintain such operational records; make reports; install, use, and maintain monitoring equipment or methods; sample and analyze emissions or discharges in accordance with prescribed methods at locations, intervals, and procedures as the Department shall prescribe; and provide such other information as the Department reasonably may require. All records required to demonstrate compliance with the limits established under this permit shall be maintained on site for a period of at least 5 years from the date the record was generated and shall be made available to a Department representative upon request.
C.2	**Equipment/Control Device ID:** All The owner/operator shall inspect, calibrate, adjust, and maintain continuous monitoring systems, monitoring devices, and gauges in accordance with manufacturer's specifications or good engineering practices. The owner/operator shall maintain on file all measurements including continuous monitoring system or monitoring device performance measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required in a permanent form suitable for inspection by Department personnel.

C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
C.3	**Equipment/Control Device ID:** All All gauges shall be readily accessible and easily read by operating personnel and Department personnel (i.e. on ground level or easily accessible roof level). Monitoring parameter readings (i.e., pressure drop readings, etc.) and inspection checks shall be maintained in logs (written or electronic), along with any corrective action taken when deviations occur. Each incidence of operation outside the operational ranges, including date and time, cause, and corrective action taken, shall be recorded and kept on site. Exceedance of operational range shall not be considered a violation of an emission limit of this permit, unless the exceedance is also accompanied by other information demonstrating that a violation of an emission limit has taken place. Reports of these incidences shall be submitted semiannually. If no incidences occurred during the reporting period then a letter shall indicate such. Any alternative method for monitoring control device performance must be preapproved by the Department and shall be incorporated into the permit as set forth in S.C. Regulation 61-62.70.7.
C.4	**Equipment/Control Device ID:** All For any source test required under an applicable standard or permit condition, the owner, operator, or representative shall comply with S.C. Regulation 61-62.1, Section IV - Source Tests. Unless approved otherwise by the Department, the owner, operator, or representative shall ensure that source tests are conducted while the source is operating at the maximum expected production rate or other production rate or operating parameter which would result in the highest emissions for the pollutants being tested. Some sources may have to spike fuels or raw materials to avoid being subjected to a more restrictive feed or process rate. Any source test performed at a production rate less than the rated capacity may result in permit limits on emission rates, including limits on production if necessary. The owner or operator shall comply with any limits that result from conducting a source test at less than rated capacity. A copy of the most recent Department issued source test summary letter, whether it imposes a limit or not, shall be maintained with the operating permit, for each source that is required to conduct a source test. Site-specific test plans and amendments, notifications, and source test reports shall be submitted to the Manager of the Source Evaluation Section, Bureau of Air Quality.
C.5	**Equipment/Control Device ID:** Facility wide (S.C. Regulation 61-62.1, Section II.E) This facility is a potential major source for PM, PM_{10}, $PM_{2.5}$, NO_x, SO_2, CO, VOC emissions. The facility has agreed to federally enforceable operating limitations to limit its potential to emit to less than 250 tons per year (excluding fugitive emissions) for PM, PM_{10}, $PM_{2.5}$, NO_x, SO_2, CO, VOC emissions tons per year to avoid PSD. All fugitive emissions shall be included in the initial report of calculated values submitted to the Bureau, however are not required to be counted

C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	towards the 250 TPY threshold. Subsequent submittals of the fugitive emissions are required within 30 days of the change if the operation or basis for emissions is modified or the Department requests additional information.
C.6	**Equipment/Control Device ID:** Facility wide (SC Regulation 61-62.1, Section II.E) The owner/operator shall maintain records of all volatile organic compounds (VOC). These records shall include the total amount of each material used, the VOC content in percent by weight of each material, and any other records necessary to determine VOC emissions. VOC emissions shall be calculated on a monthly basis, and a twelve-month rolling sum shall be calculated for total VOC emissions. Emissions from malfunctions are required to be quantified and included in the calculations. All fugitive emissions shall be included in the initital report of calculated values submitted to the Bureau, however are not required to be counted towards the 250 TPY threshold. The twelve-month rolling sum shall be less than 250 tons. Reports of the calculated values and the twelve-month rolling sum, calculated for each month in the reporting period, shall be submitted semiannually. An algorithm, including example calculations and emission factors, explaining the method used to determine emission rates shall be submitted for approval in the initial report. Subsequent submittals of the algorithm are required within 30 days of the change if the algorithm or basis for emissions is modified or the Department requests additional information. Subsequent submittals of the fugitive emissions are required within 30 days of the change if the operation or basis for emissions is modified or the Department requests additional information.
C.7	**Equipment/Control Device ID:** Facility wide (SC Regulation 61-62.1, Section II.E) The owner/operator shall maintain production, fuel records and/or any other records necessary to determine facility wide PM emissions. PM emissions shall be calculated on a monthly basis, and a twelve month rolling sum shall be calculated for total PM emissions. Emissions from malfunctions are required to be quantified and included in the calculations. All fugitive emissions shall be included in the initial report of calculated values submitted to the Bureau, however are not required to be counted towards the 250 TPY threshold. The twelve month rolling sum shall be less than 250 tons. Reports of the calculated values and the twelve-month rolling sum, calculated for each month in the reporting period, shall be submitted semiannually. An algorithm, including example calculations and emission factors, explaining the method used to determine emission rates shall be submitted for approval in the initial report. Subsequent submittals of the algorithm are required within 30 days of the change if the algorithm or basis for emissions is modified or the Department requests additional information. Subsequent submittals of the fugitive emissions are required within 30 days of the change if the operation or basis for emissions is modified or the Department requests additional information.

C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
C.8	**Equipment/Control Device ID:** Facility wide (SC Regulation 61-62.1, Section II.E) The owner/operator shall maintain production, fuel records and/or any other records necessary to determine facility wide PM_{10} emissions. PM_{10} emissions shall be calculated on a monthly basis, and a twelve month rolling sum shall be calculated for total PM_{10} emissions. Emissions from malfunctions are required to be quantified and included in the calculations. All fugitive emissions shall be included in the initial report of calculated values submitted to the Bureau, however are not required to be counted towards the 250 TPY threshold. The twelve month rolling sum shall be less than 250 tons. Reports of the calculated values and the twelve-month rolling sum, calculated for each month in the reporting period, shall be submitted semiannually. An algorithm, including example calculations and emission factors, explaining the method used to determine emission rates shall be submitted for approval in the initial report. Subsequent submittals of the algorithm are required within 30 days of the change if the algorithm or basis for emissions is modified or the Department requests additional information. Subsequent submittals of the fugitive emissions are required within 30 days of the change if the operation or basis for emissions is modified or the Department requests additional information.
C.9	**Equipment/Control Device ID:** Facility wide (SC Regulation 61-62.1, Section II.E) The owner/operator shall maintain production, fuel records and/or any other records necessary to determine facility wide $PM_{2.5}$ emissions. $PM_{2.5}$ emissions shall be calculated on a monthly basis, and a twelve month rolling sum shall be calculated for total $PM_{2.5}$ emissions. Emissions from malfunctions are required to be quantified and included in the calculations. All fugitive emissions shall be included in the initial report of calculated values submitted to the Bureau, however are not required to be counted towards the 250 TPY threshold. The twelve month rolling sum shall be less than 250 tons. Reports of the calculated values and the twelve-month rolling sum, calculated for each month in the reporting period, shall be submitted semiannually. An algorithm, including example calculations and emission factors, explaining the method used to determine emission rates shall be submitted for approval in the initial report. Subsequent submittals of the algorithm are required within 30 days of the change if the algorithm or basis for emissions is modified or the Department requests additional information. Subsequent submittals of the fugitive emissions are required within 30 days of the change if the operation or basis for emissions is modified or the Department requests additional information.
C.10	**Equipment/Control Device ID:** Facility wide (SC Regulation 61-62.1, Section II.E) The owner/operator shall maintain production, fuel records and/or any other records necessary to determine facility wide NO_x emissions. NO_x emissions shall be calculated on a monthly basis, and a twelve month rolling sum shall be calculated for total NO_x emissions. Emissions from malfunctions are required to be quantified and included in the calculations. The twelve

C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	month rolling sum shall be less than 250 tons. Reports of the calculated values and the twelve-month rolling sum, calculated for each month in the reporting period, shall be submitted semiannually. An algorithm, including example calculations and emission factors, explaining the method used to determine emission rates shall only be included in the initial report. Subsequent submittals of the algorithm are required within 30 days of the change if the algorithm or basis for emissions is modified or the Department requests additional information.
C.11	**Equipment/Control Device ID:** Facility wide (SC Regulation 61-62.1, Section II.E) The owner/operator shall maintain production, fuel records and/or any other records necessary to determine facility wide CO emissions. CO emissions shall be calculated on a monthly basis, and a twelve month rolling sum shall be calculated for total CO emissions. Emissions from malfunctions are required to be quantified and included in the calculations. The twelve month rolling sum shall be less than 250 tons. Reports of the calculated values and the twelve-month rolling sum, calculated for each month in the reporting period, shall be submitted semiannually. An algorithm, including example calculations and emission factors, explaining the method used to determine emission rates shall be submitted for approval in the initial report. Subsequent submittals of the algorithm are required within 30 days of the change if the algorithm or basis for emissions is modified or the Department requests additional information.
C.12	**Equipment/Control Device ID:** Facility wide (SC Regulation 61-62.1, Section II.E) The owner/operator shall maintain production, fuel records and/or any other records necessary to determine facility wide SO_2 emissions. SO_2 emissions shall be calculated on a monthly basis, and a twelve month rolling sum shall be calculated for total SO_2 emissions. Emissions from malfunctions are required to be quantified and included in the calculations. The twelve month rolling sum shall be less than 250 tons. Reports of the calculated values and the twelve-month rolling sum, calculated for each month in the reporting period, shall be submitted semiannually. An algorithm, including example calculations and emission factors, explaining the method used to determine emission rates shall be submitted for approval in the initial report. Subsequent submittals of the algorithm are required within 30 days of the change if the algorithm or basis for emissions is modified or the Department requests additional information.
C.13	**Equipment/Control Device ID:** E3-1, E3-2a, E3-2b,, E11, CD-RTO 100.001, CD-SNCR 100.001a, SNCR 100.001b, CD-ESP 100.002, CD-SC 120.001, CD-RTO 120.002 (SC Regulation 61-62.1, Section II.E) An initial source test for PM emissions shall be conducted within 180 days after startup and every two (2) years thereafter. The source test will be used to verify emissions and show compliance with the PM standard.

C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
C.14	**Equipment/Control Device ID:** E3-1, E3-2a, E3-2b, E11, CD-RTO 100.001, SNCR 100.001a, SNCR 100.001b, CD-ESP 100.002, CD-SC 120.001, CD-RTO 120.002 (SC Regulation 61-62.1, Section II.E) An initial source test for PM_{10} emissions shall be conducted within 180 days after startup and every two (2) years thereafter. The source test will be used to verify emissions and show compliance with the PM_{10} standard. Less frequent source testing for PM_{10} may be done if at least two (2) consecutive stack tests shows that the facility wide emissions are at or below 75% of the emission limitation of less than 250 TPY, and if there are no changes in the operation of the affected source or air pollution control equipment that could increase emissions. In this case, no source testing will be required for the next four (4) years. Any source test shall be no more than 60 months after the previous source test.
C.15	**Equipment/Control Device ID:** E3-1, E3-2a, E3-2b, E11, CD-RTO 100.001, SNCR 100.001a, SNCR 100.001b, CD-ESP 100.002, CD-SC 120.001, CD-RTO 120.002 (SC Regulation 61-62.1, Section II.E) An initial source test $PM_{2.5}$ emissions shall be conducted within 180 days after startup. The source test will be used to verify emissions, verify control efficiencies and show compliance with the $PM_{2.5}$ standard.
C.16	**Equipment/Control Device ID:** E3-1, E3-2a, E3-2b, E11, CD-RTO 100.001, SNCR 100.001a, SNCR 100.001b, CD-ESP 100.002, CD-SC 120.001, CD-RTO 120.002 (SC Regulation 61-62.1, Section II.E) An initial source test for NO_x emissions shall be conducted within 180 days after startup and every year thereafter. The source test will be used to verify emissions and show compliance with the NO_x standard. Less frequent source testing for NO_x may be done if at least two (2) consecutive stack tests shows that the facility wide emissions are at or below 75% of the emission limitation of less than 250 TPY, and if there are no changes in the operation of the affected source or air pollution control equipment that could increase emissions. In this case, no source testing will be required for the next two (2) years. Any source test shall be no more than 36 months after the previous source test.
C.17	**Equipment/Control Device ID:** E3-1, E3-2a, E3-2b, E11, CD-RTO 100.001, SNCR 100.001a, SNCR 100.001b, CD-ESP 100.002, CD-SC 120.001, CD-RTO 120.002 (SC Regulation 61-62.1, Section II.E) An initial source test for CO emissions shall be conducted within 180 days after startup and every two (2) years thereafter. The source test will be used to verify emissions and show compliance with the CO standard. Less frequent source testing for CO may be done if at least two (2) consecutive stack tests shows that the facility wide emissions are at or below 75% of the emission limitation of less than 250 TPY, and if there are no changes in the operation of the affected source or air pollution control equipment that could increase emissions. In this case, no source testing will be required for the next four (4) years. Any source test shall be no more than 60 months after the previous source test.

C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
C.18	**Equipment/Control Device ID:** E3-1, E3-2a, E3-2b, E11, CD-RTO 100.001, SNCR 100.001a, SNCR 100.001b, CD-ESP 100.002, CD-SC 120.001, CD-RTO 120.002 (SC Regulation 61-62.1, Section II.E) If the facility wide emissions indicate that the facility is within 90% of the PSD avoidance limit of 250 TPY each for NO_x emissions, then the facility will be required to install, calibrate, operate and maintain a NO_x continuous emission monitoring system (CEMS) for verifying emissions, verifying control efficiencies and demonstrating compliance with the NO_x standard. The CEMS shall be installed within three (3) months of submittal of the performance test results. The CEMS shall meet the requirements of 40 CFR 60, Appendix B, Performance Specification 2, and 40 CFR 60, Appendix F, Quality Assurance Procedures.
C.19	**Equipment/Control Device ID:** E3-1, E3-2a, E3-2b, E11, CD-RTO 100.001 SNCR 100.001a, SNCR 100.001b, CD-ESP 100.002, CD-SC 120.001, CD-RTO 120.002 (SC Regulation 61-62.1, Section II.E) If the facility wide emissions indicate that the facility is within 90% of the PSD avoidance limit of 250 TPY each for VOC emissions, then the facility will be required to install, calibrate, operate and maintain a VOC continuous emission monitoring system (CEMS) for verifying emissions, verifying control efficiencies and demonstrating compliance with the VOC standard. The CEMS shall be installed within three (3) months of submittal of the performance test results. The CEMS shall meet the requirements of 40 CFR 60, Appendix B, Performance Specification 2, and 40 CFR 60, Appendix F, Quality Assurance Procedures.
C.20	**Equipment/Control Device ID: :** E3-1, E3-2a, E3-2b, E11, CD-RTO 100.001, SNCR 100.001a, SNCR 100.001b, CD-ESP 100.002, CD-SC 120.001, CD-RTO 120.002 (SC Regulation 61-62.1, Section II.E) An initial source test for VOC emissions shall be conducted within 180 days after startup and every two (2) years thereafter. The source test will be used to verify emissions and show compliance with the VOC standard. Less frequent source testing for VOC may be done if at least two (2) consecutive stack tests shows that the facility wide emissions are at or below 75% of the emission limitationof less than 250 TPY, and if there are no changes in the operation of the affected source or air pollution control equipment that could increase emissions. In this case, no source testing will be required for the next four (4) years. Any source test shall be no more than 60 months after the previous source test.
C.21	**Equipment/Control Device ID:** E3-2a, E3-2b (intermediate port between the ESP and the Dryer), E6, E14, CD-BF 130.001, CD-BF 60.094 (SC Regulation 61-62.1, Section II.E) An initial source test for PM, PM_{10} and $PM_{2.5}$ emissions shall be conducted within 180 days after startup. The source test will be used to verify emissions, verify control efficiencies and show compliance with the PM, PM_{10} and $PM_{2.5}$ standard.
C.22	**Equipment/Control Device ID:** E15, E16, CD-CF 140.001, CD-CF 210.001 (SC Regulation 61-62.1, Section II.E) An initial source test for VOC emissions shall be conducted within 180 days after startup on one of the sawing operations. The specific sawing operation, diagonal saw

C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	operations (E16) or trim saw operations (E15), will be determined once the units are constructed. . The source test will be used to verify emissions and show compliance with the VOCstandard.
C.23	**Equipment/Control Device ID:** All system bypasses and emergency aborts (SC Regulation 61-62.1, Section II.E) The owner/operator must meet the requirements of paragraphs (1) through (3) for each emission capture system that contains bypass lines that could divert emissions away from the add-on control device to the atmosphere. (1) The owner/operator must monitor or secure the valve or closure mechanism controlling the bypass line in a nondiverting position in such a way that the valve or closure mechanism cannot be opened without creating a record that the valve was opened. The method used to monitor or secure the valve or closure mechanism must meet the requirements specified in paragraphs (1)(i) through (ii). **(1)**(i) *Flow control position indicator.* Install, calibrate, maintain, and operate according to the manufacturer's specifications a flow control position indicator that takes a reading at least once every 15 minutes and provides a record indicating whether the emissions are directed to the add-on control device or diverted from the add-on control device. The time of occurrence and flow control position must be recorded, as well as every time the flow direction is changed. The flow control position indicator must be installed at the entrance to any bypass line that could divert the emissions away from the add-on control device to the atmosphere. **(1)**(ii) *Automatic shutdown system.* Use an automatic shutdown system in which the operation is stopped when flow is diverted by the bypass line away from the add-on control device to the atmosphere when the operation is running. The owner/operator must inspect the automatic shutdown system at least once every month to verify that it will detect diversions of flow and shut down the operation. (2) If any bypass line is opened, the owner/operator must include a description of why the bypass line was opened and the length of time it remained open in the semiannual compliance reports. (3) If any bypass line is opened, the owner/operator must include the uncontrolled emissions in the facility wide total emissions.
C.24	**Equipment/Control Device ID:** Facility Wide (SC Regulation 61-62.1, Section II.E) The owner or operator shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected source; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative. Any emissions from these occurrences shall be included in the facility wide total emissions.

C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
C.25	**Equipment/Control Device ID:** E14, CD-BF 60.094 The No. 4 Flooring Line is limited to a maximum production rate of 1086 tons per hour. The owner/operator must record the actual production rates monthly, and a twelve month rolling sum shall be calculated for annual production. Reports of the twelve-month rolling sum productions rate, calculated for each month in the reporting period, shall be submitted semiannually.
C.26	**Equipment/Control Device ID:** E1, E2, E3-1, E3-2a, E3-2b, E4, E5, E6, E7, E8, E9, E10, E11, E13, E15, E16, CD-CY 200.001, CD-CY 90.001,CD-RTO 100.001, SNCR 100.001a, SNCR 100.001b, CD-ESP 100.002, CD-BF 110.001, CD-BF 150.001, CD-BF 130.001, CD-CF 130.002, CD-CF 130.003, CD-CF 170.001, CD-CF 160.001, CD-CF 190.001, CD-CF 180.001,CD-SC 120.001, CD-RTO 120.002, CD-CF230.001, CD-CF140.001, CD-CF 210.001 The MDF operations are limited to a maximum total gross production rate of 175,200 MSF per year on a ¾" basis. The owner/operator must record the actual production rates monthly, and a twelve month rolling sum shall be calculated for annual production. Reports of the twelve-month rolling sum productions rate, calculated for each month in the reporting period, shall be submitted semiannually.
C.27	**Equipment/Control Device ID:** E3-2a, CD-SNCR 100.001a, CD-ESP 100.002 This source must demonstrate simultaneous compliance with requirements and associated record keeping as detailed below: • (S.C. Regulation 61-62.5, Standard No. 1, Section I.B) This source shall not discharge into the ambient air smoke which exceeds opacity of 20%. During times of soot blowing the opacity may be exceeded for a total of 6 minutes in any hour or 24 minutes in any 24-hour period, but shall in no case exceed opacity of 60%. • (40 CFR 60.43c(c)) This source shall not discharge into the ambient air smoke which exceeds an opacity of 20% except for one six-minute period per hour of not more than 27% opacity. This opacity standard does not apply during startup, shutdown, and malfunction. The owner/operator shall, to the extent practicable, maintain and operate any source including associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions. In addition, the owner/operator shall maintain a log of the time, magnitude, duration, and any other pertinent information to determine periods of startup and shutdown and make these records available to a Department representative upon request.
C.28	**Equipment/Control Device ID:** E3-2b, CD-SNCR 100.001b, CD-ESP 100.002 This source must demonstrate simultaneous compliance with requirements and associated record keeping as detailed below: • (S.C. Regulation 61-62.5, Standard No. 1, Section I.B) This source shall not discharge into the ambient air smoke which exceeds opacity of 20%. During times of soot blowing the opacity may

C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	be exceeded for a total of 6 minutes in any hour or 24 minutes in any 24-hour period, but shall in no case exceed opacity of 60%. • (40 CFR 60.43b(f)) This source shall not discharge into the ambient air smoke which exceeds an opacity of 20% except for one six-minute period per hour of not more than 27% opacity. This opacity standard does not apply during startup, shutdown, and malfunction. The owner/operator shall, to the extent practicable, maintain and operate any source including associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions. In addition, the owner/operator shall maintain a log of the time, magnitude, duration, and any other pertinent information to determine periods of startup and shutdown and make these records available to a Department representative upon request.
C.29	**Equipment/Control Device ID:** E3-2a, E3-2b, SNCR 100.001a, SNCR 100.001b, CD-ESP 100.002 These sources are permitted to burn only natural gas, clean wood and wood residue as fuel. The use of natural gas is limited to start up only on the grate burner, E3-2b. The use of any other substances as fuel is prohibited without prior written approval from the Department.
C.30	**Equipment/Control Device ID:** E3-2a, E3-2b, SNCR 100.001a, SNCR 100.001b, CD-ESP 100.002 (S.C. Regulation 61-62.5, Standard No. 1, Section II) The maximum allowable discharge of particulate matter resulting from these sources is 0.6 pounds per million BTU input.
C.31	**Equipment/Control Device ID:** E3-2a, E3-2b, SNCR 100.001a, SNCR 100.001b, CD-ESP 100.002 S.C. Regulation 61-62.5, Standard No. 1, Section III) The maximum allowable discharge of sulfur dioxide (SO_2) resulting from these sources is 2.3 pounds per million BTU input.
C.32	**Equipment/Control Device ID:** E3-2b, CD-SNCR 100.001b, CD-ESP 100.002 S.C. Regulation 61-62.5, Standard No. 1, Section IV) The owner or operator of any woodwaste boiler of at least 100 x 10^6 Btu/hr rated heat input, not equipped with a wet scrubber, will be required to install, calibrate, operate, and maintain continuous monitoring system(s) approved by the Department for the measurement of opacity and shall comply with the requirements of the referenced section. If a boiler is fired on more than one fuel, the total capacity will determine the applicability.
C.33	**Equipment/Control Device ID:** E3-2a, E3-2b, SNCR 100.001a, SNCR 100.001b, CD-ESP 100.002 S.C. Regulation 61-62.5, Standard No. 1, Section VI) An initial source test for PM emissions shall be conducted within 180 days after startup and every two year(s) thereafter. The source test will be used show compliance with the PM standard.
C.34	**Equipment/Control Device ID:** E3-2a, E3-2b, SNCR 100.001a, SNCR 100.001b, CD-ESP 100.002 S.C. Regulation 61-62.5, Standard No. 1, Section VI) An owner or operator shall demonstrate compliance with SO_2 emissions by source testing, continuous monitoring, or fuel analysis as required.

C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
C.35	**Equipment/Control Device ID:** CD-RTO 100.001, CD-RTO 120.002 (S.C. Regulation 61-62.5, Standard No. 3, Section III.I.1) Emissions from these sources shall not exhibit an opacity greater than 20%, each.
C.36	**Equipment/Control Device ID:** CD-RTO 100.001, CD-RTO 120.002 (S.C. Regulation 61-62.5, Standard No.3, Section III.I.2) Particulate matter emissions from these sources shall not exceed 0.5 lb/10^6 Btu total heat input. The total heat input value from waste and virgin fuel used for production shall not exceed the Btus used to affect the combustion of the waste and shall not include any Btu input from auxiliary burners located outside of the primary combustion chamber such as those found in secondary combustion chambers, tertiary combustion chambers or afterburners unless those auxiliary burners are fired with waste. In the case where waste is fired in the auxiliary burners located outside of the primary combustion chamber, only the Btu value of the fuel for the auxiliary burner which is from waste shall be added to the total heat input value.
C.37	**Equipment/Control Device ID:** CD-RTO 100.001, CD-RTO 120.002 The owner/operator shall install, operate and maintain combustion zone temperature indicators on each incinerator and maintained on site. Temperature readings shall be recorded at least every fifteen (15) minutes during source operation for each incinerator. Maintenance checks for proper temperature indicator operation shall be made on at least a weekly basis. Each incinerator shall be in place and operational whenever processes controlled by it are running, except during periods of incinerator malfunction or mechanical failure.
C.38	**Equipment/Control Device ID:** CD-RTO 100.001, CD-RTO 120.002 (S.C. Regulation 61-62.5, Standard No.3, Section VI.C.2) The owner/operator shall record the daily waste(s) charge rates and hours of operation of the sources.
C.39	**Equipment/Control Device ID: :** E3-1, E3-2a, E3-2b, E11, CD-RTO 100.001, SNCR 100.001a, SNCR 100.001b, CD-ESP 100.002, CD-SC 120.001, CD-RO 120.002 (S.C. Regulation 61-62.5, Standard No.3) An initial source test for PM emissions shall be conducted within 180 days after startup and every two years thereafter. The source test will be used to verify emissions and show compliance with the PM standard.
C.40	**Equipment/Control Device ID:** CD-RTO 100.001, CD-RTO 120.002 (S.C. Regulation 61-62.5, Standard No.3, Section VI.C.2) (S.C. Regulation 61-62.5, Standard No. 3, Section IX.D) An exemption from all of the Operator Training Requirements in S.C. Regulations 61-62.5, Standard No. 3, Section IX.C has been granted for CD-RTO 100.001 and CD-RTO 120.002.
C.41	**Equipment/Control Device ID:** E1, E2, E3-1, E4, E5, E6, E7, E8, E9, E10, E11, E13, E14, E15, E16, CD-CY 200.001, CD-CY 90.001,CD-RTO 100.001, CD-BF 110.001, CD-BF 150.001, CD-BF 130.001, CD-CF 130.002,

C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

<table>
<tr><th>Condition Number</th><th>Conditions</th></tr>
<tr><td></td><td>CD-CF 130.003, CD-CF 170.001, CD-CF 160.001, CD-CF 190.001, CD-CF 180.001,CD-SC 120.001, CD-RTO 120.002, CD-CF230.001, CD-BF 60.094, CD-CF140.001, CD-CF 210.001

(S.C. Regulation 61-62.5, Standard No. 4, Section IX) Where construction or modification began after December 31, 1985, emissions from these sources (including fugitive emissions) shall not exhibit an opacity greater than 20%, each.</td></tr>
<tr><td>C.42</td><td>Equipment/Control Device ID: E1, E2, E3-1, E4, E5, E6, E7, E8, E9, E10, E11, , E13, E14, E15, E16, CD-CY 200.001, CD-CY 90.001,CD-RTO 100.001, CD-BF 110.001, CD-BF 150.001, CD-BF 130.001, CD-CF 130.002, CD-CF 130.003, CD-CF 170.001, CD-CF 160.001, CD-CF 190.001, CD-CF 180.001,CD-SC 120.001, CD-RTO 120.002, CD-CF230.001, CD-BF 60.094, CD-CF140.001, CD-CF 210.001

(S.C. Regulation 61-62.5, Standard No. 4, Section VIII) Particulate matter emissions shall be limited to the rate specified by use of the following equations:
For process weight rates less than or equal to 30 tons per hour
$E = (F)\ 4.10P^{0.67}$ and
For process weight rates greater than 30 tons per hour
$E = (F)\ 55.0P^{0.11} - 40$
Where E = the allowable emission rate in pounds per hour
P = process weight rate in tons per hour
F = effect factor from Table B in S.C. Regulation 61-62.5, Standard No. 4

For the purposes of compliance with this condition, the process boundaries are defined as follows:
<table>
<tr><th>Process/Equipment IDs</th><th>Max Process Weight Rate (ton/hr)</th></tr>
<tr><td>E1, E2, E3-1, E4, E5, E6, E7, E8, E9, E10, E11, E13, E15, E16</td><td>77.0</td></tr>
<tr><td>E14</td><td>1086</td></tr>
</table></td></tr>
<tr><td>C.43</td><td>Equipment/Control Device ID: Project Wide

(S.C. Regulation 61-62.5, Standard No. 4, Section X) All non-enclosed operations shall be conducted in such a manner that a minimum of particulate matter becomes airborne. In no case shall established ambient air quality standards be exceeded at or beyond the property line. The owner/operator of all such operations shall maintain dust control on the premises and any roadway owned or controlled by the owner/operator by paving or other suitable measures. Oil treatment is prohibited.</td></tr>
<tr><td>C.44</td><td>Equipment/Control Device ID: CD-BF 110.001, CD-BF 130.001, CD-BF 150.001, CD-BF 60.094, CD-CF 130.002, CD-CF 130.003, CD-CF 170.001, CD-CF 160.001, CD-CF 190.001, CD-CF 180.001, CD-CF 230.001, CD-CF140.001, CD-CF 210.001</td></tr>
</table>

C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	The owner/operator shall install, operate and maintain pressure drop gauges on each module of each baghouse. Pressure drop readings for each baghouse shall be recorded daily during source operation. Operation and maintenance checks shall be made on at least a weekly basis for baghouse cleaning systems, dust collection hoppers and conveying systems for proper operation. Each baghouse shall be in place and operational whenever processes controlled by it are running, except during periods of baghouse malfunction or mechanical failure.
C.45	**Equipment/Control Device ID:** CD- CY 200.001, CD-CY 90.001, CD-CF 130.002, CD-CF 130.003, CD-CF 170.001, CD-CF 160.001, CD-CF 190.001, CD-CF 180.001, CD-CF230.001, CD-CF140.001, CD-CF 210.001 Each cyclone shall be in place and operational whenever processes controlled by each cyclone are running, except during periods of cyclone malfunction or mechanical failure. The following operation and maintenance checks will be made on at least a weekly basis for all cyclones: • Check each cyclone and ductwork system for damaged or worn sheet metal or other interferences with proper operation. • Check dust collection hoppers and conveying systems for proper operation. The results from the operation and maintenance checks shall be maintained in logs (written or electronic), along with any corrective action taken.
C.46	**Equipment/Control Device ID:** E11, CD-SC120.001 The owner/operator shall install, operate, and maintain pressure drop indicators, liquid pressure indicators, on each scrubber module. Each monitored parameter shall be recorded daily during source operation. Operation and maintenance checks shall be made on at least a weekly basis. The scrubber shall be in place and operational whenever processes controlled by it are running, except during periods of scrubber malfunction or mechanical failure.
C.47	**Equipment/Control Device ID:** E3-2a, E3-2b, SNCR 100.001a, SNCR 100.001b, CD-ESP 100.002 (S.C. Regulation 61-62.5, Standard No. 5.2, Section III) The allowable discharge of NO_X resulting from these sources is a 30% reduction from uncontrolled levels.
C.48	**Equipment/Control Device ID:** E3-2a, E3-2b, SNCR 100.001a, SNCR 100.001b, CD-ESP 100.002 (S.C. Regulation 61-62.5, Standard No. 5.2, Section III) An initial source test to verify and establish the control efficiency of the SNCR shall be conducted within 180 days after startup. The source test will be used to verify that the control efficiencies are greater than 30%.
C.49	**Equipment/Control Device ID:** E3-2a, E3-2b, SNCR 100.001a, SNCR 100.001b, CD-ESP 100.002 The owner/operator shall install, calibrate, maintain and operate a continuous parameter monitoring system. For any SNCR, the owner/operator must continuously monitor the appropriate parameters to determine whether the unit is achieving compliance with SC Regulation 61-62.1, Section II.E and S.C. Regulation 61-62.5, Standard No. 5.2.

C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
C.50	**Equipment/Control Device ID:** E3-2a, E3-2b, SNCR 100.001a, SNCR 100.001b, CD-ESP 100.002 The owner/operator must develop and keep on-site a parameter monitoring plan which explains the procedures used to document proper operation of the SNCR. The plan must: (1) Include the indicators to be monitored and show there is a significant relationship to emissions and proper operation of the NO_X emission controls, (2) Pick ranges (or designated conditions) of the indicators, or describe the process by which such range (or designated condition) will be established, (3) Explain the process that will used to make certain that the data obtained are representative of the emissions or parameters being monitored (such as detector location, installation specification if applicable), (4) Describe quality assurance and control practices that are adequate to ensure the continuing validity of the data, (5) Describe the frequency of monitoring and the data collection procedures which will be used (e.g., a computerized data acquisition over a number of discrete data points with the average (or maximum value) being used for purposes of determining whether an exceedance has occurred), and (6) Submit justification for the proposed elements of the monitoring. If a proposed performance specification differs from manufacturer recommendation, the owner/operator must explain the reasons for the differences. The owner/operator must submit the data supporting the justification, but may refer to generally available sources of information used to support the justification. The owner/operator may rely on engineering assessments and other data, provided the factors have been demonstrated to assure compliance.
C.51	**Equipment/Control Device ID:** E3-2a, E3-2b, SNCR 100.001a, SNCR 100.001b, CD-ESP 100.002 The appropriate parameters must be continuously monitored and recorded during each run of the initial performance test, to establish acceptable operating values and ranges, for purposes of the parameter monitoring plan for the affected unit. The owner/operator may supplement the performance test data with engineering analyses, design specifications, manufacturer's recommendations and other relevant information to define the acceptable parametric ranges more precisely.

C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
C.52	**Equipment/Control Device ID:** E3-2a, E3-2b, SNCR 100.001a, SNCR 100.001b, CD-ESP 100.002 For each affected unit required to continuously monitor parameters or emissions, the owner/operator must submit reports of excess emissions and monitor downtime. Excess emissions must be reported for all periods of unit operation, including start-up, shutdown, and malfunction.
C.53	**Equipment/Control Device ID:** E3-2a, E3-2b, SNCR 100.001a, SNCR 100.001b, CD-ESP 100.002 (S.C. Regulation 61-62.5, Standard No. 5.2, Section IV) The owner or operator shall perform tune-ups every twenty-four (24) months in accordance with manufacturer's specifications or with good engineering practices. The first tune-up shall be conducted no more than twenty-four (24) months from replacement of a burner assembly for affected existing sources. Each subsequent tune-up shall be conducted no more than twenty-four (24) months after the previous tune-up. All tune-up records are required to be maintained on site and available for inspection by the Department for a period of five (5) years from the date generated. The owner or operator shall develop and retain a tune-up plan on file.
C.54	**Equipment/Control Device ID:** E3-2a, E3-2b, SNCR 100.001a, SNCR 100.001b, CD-ESP 100.002 (S.C. Regulation 61-62.5, Standard No. 5.2, Section IV) The owner or operator shall record monthly the amounts and types of each fuel combusted by the affected sources and maintain these records on site. The owner or operator shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected source; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.
C.55	**Equipment/Control Device ID:** Facility Wide (S.C. Regulation 61-62.6) Fugitive particulate matter (PM) emissions from material handling, process equipment, or storage piles will be minimized to the maximum extent possible. Fugitive emissions from dust buildup will be controlled by proper housekeeping and/or wet suppression.
C.56	**Equipment/Control Device ID:** All The owner/operator shall perform a visual inspection on a weekly basis during source operation. No periodic monitoring for opacity will be required during periods of burning natural gas or propane only. Logs shall be kept to record all visual inspections, noting color, duration, density (heavy or light), cause, and corrective action taken for any abnormal emissions. If a source did not operate during the required visual inspection time frame, the log shall indicate such. The owner/operator shall submit semiannual reports. The report shall include records of abnormal emissions, if any, and corrective actions taken. If only natural gas or propane was combusted or if the unit did not operate during the semiannual period, the report shall state so.

C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	Visual inspection means a qualitative observation of opacity during daylight hours. The observer does not need to be certified to conduct valid visual inspections. However, at a minimum, the observer should be trained and knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, and observer position relative to lighting, wind, and the presence of uncombined water.
C.57	**Equipment/Control Device ID:** E3-2a, CD-SNCR 100.001a, CD-ESP 100.002 This sources is subject to New Source Performance Standard (NSPS), 40 CFR 60, Subpart A, General Provisions and Subpart Dc, Small Industrial-Commercial-Institutional Steam Generating Units and S.C. Regulation 61-62.60, Subparts A and Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, as applicable. The owner/operator shall comply with all applicable requirements of Subparts A and Dc.
C.58	**Equipment/Control Device ID:** E3-2a, CD-SNCR 100.001a, CD-ESP 100.002 (40 CFR 60.43c(e)(1)) On and after the date on which the initial performance test is completed or is required to be completed under 40 CFR 60.8, whichever date comes first, no owner or operator of an affected facility that commences construction, reconstruction, or modification after February 28, 2005, and that combusts coal, oil, wood, a mixture of these fuels, or a mixture of these fuels with any other fuels and has a heat input capacity of 8.7 MW (30 MMBtu/h) or greater shall cause to be discharged into the atmosphere from that affected facility any gases that contain PM in excess of 13 ng/J (0.030 lb/MMBtu) heat input.
C.59	**Equipment/Control Device ID:** E3-2a, CD-SNCR 100.001a, CD-ESP 100.002 (40 CFR 60.43c(e)(1)) Within 60 calendar days after achieving the maximum production rate at which this facility will be operated, but no later than 180 calendar days after its initial startup and at such other times as may be required by the Department under section 114 of the Clean Air Act, the owner/operator of this facility shall conduct performance tests. Performance tests shall be conducted on the dust burner (E3-2a) to show compliance with the PM standard. Compliance with the PM standards shall be determined by conducting performance tests in accordance with the procedures and methods specified in 40 CFR 60, Subpart Dc.
C.60	**Equipment/Control Device ID:** E3-2a, CD-SNCR 100.001a, CD-ESP 100.002 (40 CFR 60.47c(a)) The owner or operator of an affected facility combusting coal, oil, or wood that is subject to the opacity standards under 40 CFR 60.43c shall install, calibrate, maintain, and operate a continuous opacity monitoring system (COMS) for measuring the opacity of the emissions discharged to the atmosphere and record the output of the system.

C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
C.61	**Equipment/Control Device ID:** E3-2a, CD-SNCR 100.001a, CD-ESP 100.002 (40 CFR 60.47c(b)) All COMS shall be operated in accordance with the applicable procedures under Performance Specification 1 of 40 CFR 60, Appendix B. The span value of the opacity COMS shall be between 60 and 80 percent.
C.62	**Equipment/Control Device ID:** E3-2a, CD-SNCR 100.001a, CD-ESP 100.002 (40 CFR 60.49c(c)) In addition to the applicable requirements in 40 CFR 60.7, the owner or operator of an affected facility subject to the opacity limits in 40 CFR 60.43c(c) shall submit excess emission reports for any excess emissions from the affected facility that occur during the reporting period and maintain records according to the requirements specified in the referenced section, as applicable to the visible emissions monitoring method used.
C.63	**Equipment/Control Device ID:** E3-2a, CD-SNCR 100.001a, CD-ESP 100.002 The owner/operator shall record and maintain records of the amounts and types of each fuel combusted by this source. The hours and type of fuel combusted shall be recorded monthly.
C.64	**Equipment/Control Device ID:** E3-2b, CD-SNCR 100.001b, CD-ESP 100.002 This source is subject to New Source Performance Standard (NSPS), 40 CFR 60, Subpart A, General Provisions and Subpart Dc, Small Industrial-Commercial-Institutional Steam Generating Units and S.C. Regulation 61-62.60, Subparts A and Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units, as applicable. The owner/operator shall comply with all applicable requirements of Subparts A and Db.
C.65	**Equipment/Control Device ID:** E3-2b, CD-SNCR 100.001b, CD-ESP 100.002 The owner/operator is subject to and shall maintain compliance with a federally enforceable requirement that limits operation of the grate burner to an annual capacity factor of 10 percent (0.10) or less for coal, oil, and natural gas (or any combination of the three).
C.66	**Equipment/Control Device ID:** E3-2b, CD-SNCR 100.001b, CD-ESP 100.002 (40 CFR 60.43b(h)(1)) On and after the date on which the initial performance test is completed or is required to be completed under 40 CFR 60.8, whichever date comes first, no owner or operator of an affected facility that commenced construction, reconstruction, or modification after February 28, 2005, and that combusts coal, oil, wood, a mixture of these fuels, or a mixture of these fuels with any other fuels shall cause to be discharged into the atmosphere from that affected facility any gases that contain PM in excess of 13 ng/J (0.030 lb/MMBtu) heat input, This PM standard does not apply during startup, shutdown, and malfunction.
C.67	**Equipment/Control Device ID:** E3-2b, CD-SNCR 100.001b, CD-ESP 100.002 (40 CFR 60.43b(h)(1)) Within 60 calendar days after achieving the maximum production rate at which this facility will be operated, but no later than 180 calendar days after its initial startup and at such other

C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	times as may be required by the Department under section 114 of the Clean Air Act, the owner/operator of this facility shall conduct performance tests. Performance tests shall be conducted on the grate burner to show compliance with the PM standard. Compliance with the PM standards shall be determined by conducting performance tests in accordance with the procedures and methods specified in 40 CFR 60, Subpart Db.
C.68	**Equipment/Control Device ID:** E3-2b, CD-SNCR 100.001b, CD-ESP 100.002 (40 CFR 60.48b(a)) The owner or operator of an affected facility subject to the opacity standard shall install, calibrate, maintain, and operate a continuous opacity monitoring systems (COMS) for measuring the opacity of emissions discharged to the atmosphere and record the output of the system and shall comply with the requirements as described in the referenced section.
C.69	**Equipment/Control Device ID:** E3-2b, CD-SNCR 100.001b, CD-ESP 100.002 (40 CFR 60.48b(e)) The procedures under 40 CFR 60.13 shall be followed for installation, evaluation, and operation of the continuous monitoring systems. For affected facilities combusting coal, wood or municipal-type solid waste, the span value for a COMS shall be between 60 and 80 percent.
C.70	**Equipment/Control Device ID:** E3-2b, CD-SNCR 100.001b, CD-ESP 100.002 (40 CFR 60.49b(a)) The owner or operator of each affected facility shall submit notification of the date of initial startup, as provided by 40 CFR 60.7, and shall include the requirements outlined in the referenced section.
C.71	**Equipment/Control Device ID:** E3-2b, CD-SNCR 100.001b, CD-ESP 100.002 (40 CFR 60.49b(d)) The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.
C.72	**Equipment/Control Device ID:** E3-2b, CD-SNCR 100.001b, CD-ESP 100.002 (40 CFR 60.49b(f)) For an affected facility subject to the opacity standard, the owner or operator shall maintain records of opacity. In addition, an owner or operator that shall maintain records according to the requirements specified in the referenced section, as applicable to the visible emissions monitoring method used.
C.73	**Equipment/Control Device ID:** E3-2b, CD-SNCR 100.001b, CD-ESP 100.002 (40 CFR 60.49b(h)) The owner or operator of any affected facility is required to submit excess emission reports for any excess emissions that occurred during the reporting period in accordance with the referenced section.

C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

<table>
<tr><th>Condition Number</th><th>Conditions</th></tr>
<tr><td>C.74</td><td>Equipment/Control Device ID: E3-2b, CD-SNCR 100.001b, CD-ESP 100.002

(40 CFR 60.42b(k)(2), 60.45b(j) and 60.49b(r)) Units firing only very low sulfur oil, gaseous fuel, a mixture of these fuels, or a mixture of these fuels with any other fuels with a potential SO_2 emission rate of 140 ng/J (0.32 lb/MMBtu) heat input or less are exempt from the SO_2 emissions limit in the referenced regulation. Compliance shall be demonstrated by the following:

1) Combusts only very low sulfur oil, natural gas, wood, a mixture of these fuels, or any of these fuels (or a mixture of these fuels) in combination with other fuels that are known to contain an insignificant amount of sulfur shall obtain and maintain at the affected facility fuel receipts (such as a current, valid purchase contract, tariff sheet, or transportation contract) from the fuel supplier that certify that the gaseous fuel meets the definition of natural gas as defined in 40 CFR 60.41b and the applicable sulfur limit. Reports shall be submitted to the Administrator certifying that only very low sulfur oil meeting this definition, natural gas, wood, and/or other fuels that are known to contain insignificant amounts of sulfur were combusted in the affected facility during the reporting period.</td></tr>
<tr><td>C.75</td><td>Equipment/Control Device ID: E1, E3-1, E3-2a, E3-2b, E4, E5, E6, E11, E14, CD-CY 200.001, CD-RTO 100.001, CD-SNCR 100.001a, CD-SNCR 100.001b, CD-ESP 100.002, CD-BF 110.001, CD-BF 150.001, CD-BF 130.001, CD-SC 120.001, CD-RTO 120.002, CD-BF 60.094

This source is subject to 40 CFR 64, Compliance Assurance Monitoring and shall comply with all applicable provisions. The following units are subject:
<table>
<tr><th>Equipment Name</th><th>Equip. ID</th><th>Control Device ID</th><th>Pollutant</th><th>Control Device</th><th>Monitoring Parameter</th><th>Standard Requiring Control</th></tr>
<tr><td rowspan="2">Grate Burner</td><td>E3-2b</td><td>SNCRb 100.001</td><td>NOx</td><td>SNCR - Urea Injection</td><td>Urea injection rate (gpm)</td><td>Std. 5.2</td></tr>
<tr><td>E3-2b</td><td>ESP 100.002</td><td>PM</td><td>ESP/RTO</td><td>COM on outlet of RTO</td><td>Std. 1</td></tr>
<tr><td rowspan="2">Dust Burner</td><td>E3-2a</td><td>SNCR 100.001a</td><td>NOx</td><td>SNCR - Urea Injection</td><td>Urea injection rate (gpm)</td><td>Std. 5.2</td></tr>
<tr><td>E3-2a</td><td>ESP 100.002</td><td>PM</td><td>ESP/RTO</td><td>COM on outlet of RTO</td><td>Std. 1</td></tr>
<tr><td>Dryer RTO</td><td>E3-1</td><td>RTO Oxidizer RTO 100.001</td><td>PM/CO</td><td>RTO</td><td>Combustion Temperature (°C)</td><td>Std. 3 & 4, PSD avoidance</td></tr>
<tr><td>Forming Line Baghouse</td><td>E4</td><td>Baghouse BF 110.001</td><td>PM</td><td>Baghouse Filter</td><td>Pressure Drop (in water)</td><td>Std. 4</td></tr>
</table></td></tr>
</table>

C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions

Fiber Reject System	E5	BF 150.001 Baghouse	PM	Baghouse Filter	Pressure Drop (in water)	Std. 4
Board Sanding	E6	BF 130.001 Baghouse	PM	Baghouse Filter	Pressure Drop (in water)	Std. 4
Board Press	E11	Scrubber SC 120.001	PM	Scrubber	Scrubber Pressure Drop (in water) Pump Pressure (psig)	Std. 3 & 4
	E11	RTO 120.002	PM	RTO	Combustion Temperature (°C)	Std. 3 & 4
No. 4 Flooring Line Baghouse	E14	BF 60.094 Baghouse	PM	Baghouse Filter	Pressure Drop (in water)	Std. 4
Chipper Cyclone	E1	Cyclone CY 200.001	PM	Cyclone	Daily maintenance checks	Std. 4

The owner/operator shall install, operate, and maintain these indicating devices at appropriate locations as the measurement approach. The indicator types shall be used to provide assurance of compliance with applicable requirements that have subjected the facility to CAM. The control devices shall be in place and operational whenever processes controlled by it are running, except during periods of malfunction or mechanical failure of the control device.

The operational ranges for the indicating devices, with supporting documentation and quality assurance procedures, shall be submitted to the Department for approval within 180 days of the startup date of this source. At that time, an excursion for monitoring parameters shall also be defined. These operational ranges for the monitored parameters shall be derived from data, which demonstrate a reasonable assurance of compliance. Process and capture system operational parameters shall be monitored during the stack tests, and operational ranges or inspection and maintenance activities shall be developed for these parameters to reflect proper operation and maintenance of the control device and capture system. Testing must be conducted in accordance with S.C. Regulation 61-62.1, Section IV, Source Tests. The owner/operator shall coordinate with the Source Evaluation Section of the Bureau of Air Quality, and the test must be performed according to a protocol approved by this Department. The Source Evaluation Section shall be notified not less than two (2) weeks before the initiation of the test, and the final test report must be submitted no later than 30 days after completion of on-site testing.

The operational range, exceedance, and excursion information shall be incorporated into the facility's Part 70 (Title V) Operating Permit once all appropriate testing has been completed and the test results have been approved by the Department. Such incorporation will represent a minor modification to the permit. The facility shall provide all relevant information for this modification, including a listing of the exact changes needed to the existing Title V permit as required by Part 70 regulations. The facility shall update their CAM plan with this information as appropriate.

C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
C.76	**Equipment/Control Device ID:** A visible emission observation, in accordance with the Environmental Protection Agency (EPA) Reference Test Method 9, shall be done concurrently with required PM, PM_{10} or $PM_{2.5}$ emission testing. In circumstances where concurrent visual emission observations are biased (such as overlapping plumes, overcast skies or other non-controllable variables described in Method 9), the facility shall perform a make-up visible emission observation within fifteen (15) days of the PM, PM_{10} or $PM_{2.5}$ test. The make-up observation shall be done with the unit's operational mode comparable to that of the PM test and shall be completed no later than fifteen (15) days after the PM, PM_{10} or $PM_{2.5}$ test.
C.77	**Equipment/Control Device ID:** All Operational ranges for the monitored parameters shall be established to ensure proper operation of the pollution control equipment. These operational ranges for the monitored parameters shall be derived from stack test data, vendor certification, and/or operational history and visual inspections, which demonstrate the proper operation of the equipment. Prior to the first source test, the facility shall use manufacturer's recommendations for operational ranges. The manufacturer's recommendations must be maintained on site. These ranges and supporting documentation (certification from manufacturer, stack test results, 30 days of normal readings, opacity readings, etc.) shall be submitted to the Director of Engineering Services when the final test report is due. Operating ranges may be updated following submittal to the Department.
C.78	**Equipment/Control Device ID:** All The owner or operator shall continue to operate under all applicable requirements, including emission limits and standards, testing, monitoring, record keeping, and reporting of the existing Title V Operating Permit (TV-0300-0031) that are not changed or contravened by this construction permit.

D. NESHAP PERIODIC REPORTING SCHEDULE SUMMARY

NESHAP Part	NESHAP Subpart	Compliance Monitoring Report Submittal Frequency	Reporting Period	Report Due Date
63	DDDD	Semi-Annual	January 1 through June 30 July 1 through December 31	July 31st January 31st
63	DDDDD (5D)	Annual, Biennial, or Five-Year	January 1 – December 31, Biennially, or Five Years	Postmarked no later than January 31 following the end of the reporting period
63	JJJJ	Semi-Annual	January 1 through June 30 July 1 through December 31	January 31st July 31st

D. NESHAP PERIODIC REPORTING SCHEDULE SUMMARY

NESHAP Part	NESHAP Subpart	Compliance Monitoring Report Submittal Frequency	Reporting Period	Report Due Date
63	ZZZZ (Emergency Generators see note 12 and 14)	N/A	N/A	N/A

1. This table summarizes only the periodic compliance reporting schedule. Additional reports may be required. See specific NESHAP Subpart for additional reporting requirements and associated schedule.
2. This reporting schedule does not supersede any other reporting requirements including but not limited to 40 CFR Part 60, 40 CFR Part 61, 40 CFR Part 63, and/or Title V. The MACT reporting schedule may be adjusted to coincide with the Title V reporting schedule with prior approval from the Department in accordance with §63.10.a.5. This request may be made 1 year after the compliance date for the associated MACT standard.
3. Facilities with emergency generators are not required to submit reports. Only non-emergency engines are required to submit semiannual reports.
4. Facilities with emergency engines shall comply with the operations limits specified in 40 CFR 63.6640(f).

E. NESHAP - CONDITIONS

Condition Number	Condition
E.1	All NESHAP notifications and reports shall be sent to the Manager of the Air Toxics Section, South Carolina Department of Health and Environmental Control - Bureau of Air Quality.
E.2	All NESHAP notifications and the cover letter to periodic reports shall be sent to the United States Environmental Protection Agency (US EPA) at the following address or electronically as required by the specific subpart: **US EPA, Region 4** **Air, Pesticides and Toxics Management Division** **61 Forsyth Street SW** **Atlanta, GA 30303**
E.3	This facility has processes subject to the provisions of S.C. Regulation 61-62.63 and 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subparts A, General Provisions, and DDDD, Plywood And Composite Wood Products. Existing affected sources shall be in compliance with the requirements of these Subparts by the compliance date, unless otherwise noted. Any new affected sources shall comply with the requirements of these Subparts upon initial start-up unless otherwise noted.
E.4	This facility has processes subject to the provisions of S.C. Regulation 61-62.63 and 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subparts A, General Provisions, and DDDDD, Industrial, Commercial, And Institutional Boilers And Process Heaters. Existing affected sources shall be in compliance with the requirements of these Subparts by the compliance date, unless otherwise noted. Any new affected sources shall comply with the requirements of these Subparts upon initial start-up unless otherwise noted.

E. NESHAP - CONDITIONS

Condition Number	Condition
E.5	This facility has processes subject to the provisions of S.C. Regulation 61-62.63 and 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subparts A, General Provisions, and JJJJ, Paper And Other Web Coating. Existing affected sources shall be in compliance with the requirements of these Subparts by the compliance date, unless otherwise noted. Any new affected sources shall comply with the requirements of these Subparts upon initial start-up unless otherwise noted.
E.6	Affected sources: All Stationary IC Engines: This facility is subject to the provisions of 40 CFR Part 63, National Emission Standards for Hazardous Air Pollutants, Subparts A and NESHAP for Stationary Reciprocating Internal Combustion Engines. Existing affected sources shall comply with the applicable provisions by the compliance date specified in Subpart ZZZZ. Any new affected sources shall comply with the requirements of this Subpart upon initial start-up unless otherwise noted.
E.7	Emergency power generators less than or equal to 150 kilowatt (kW) rated capacity or greater than 150 kW rated capacity designated for emergency use only and operated a total of 500 hours per year or less for testing and maintenance with a method to record the actual hours of use such as an hour meter have been determined to be exempt from construction permitting requirements in accordance with South Carolina Regulation 61-62.1. These sources shall still comply with the requirements of all applicable regulations including but not limited to the following: New Source Performance Standards (NSPS) 40 CFR 60 Subpart A (General Provisions); NSPS 40 CFR 60 Subpart IIII (Stationary Compression Ignition Internal Combustion Engines); NSPS 40 CFR 60 Subpart JJJJ (Stationary Spark Ignition Internal Combustion Engines); National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR 63 Subpart A (General Provisions); and NESHAP 40 CFR 63 Subpart ZZZZ (Stationary Reciprocating Internal Combustion Engines).

F. AMBIENT AIR STANDARDS REQUIREMENTS

Condition Number	Condition
F.1	Air dispersion modeling (or other method) has demonstrated that this facility's operation will not interfere with the attainment and maintenance of any state or federal ambient air standard. Any changes in the parameters used in this demonstration may require a review by the facility to determine continuing compliance with these standards. These potential changes include any decrease in stack height, decrease in stack velocity, increase in stack diameter, decrease in stack exit temperature, increase in building height or building additions, increase in emission rates, decrease in distance between stack and property line, changes in vertical stack orientation, and installation of a rain cap that impedes vertical flow. Parameters that are not required in the determination will not invalidate the demonstration if they are modified. The emission rates used in the determination are listed in Attachment - Emission Rates for Ambient Air Standards of this permit. Higher emission rates may be administratively incorporated into Attachment - Emission Rates for Ambient Air Standards of this permit provided a demonstration using these higher emission rates shows the attainment and

F. AMBIENT AIR STANDARDS REQUIREMENTS

Condition Number	Condition
	maintenance of any state or federal ambient air quality standard or with any other applicable requirement. Variations from the input parameters in the demonstration shall not constitute a violation unless the maximum allowable ambient concentrations identified in the standard are exceeded. The owner/operator shall maintain this facility at or below the emission rates as listed in Attachment - Emission Rates for Ambient Air Standards, not to exceed the pollutant limitations of this permit. Should the facility wish to increase the emission rates listed in Attachment - Emission Rates for Ambient Air Standards, not to exceed the pollutant limitations in the body of this permit, it may do so by the administrative process specified above. This is a State Only enforceable requirement.

G. PERIODIC REPORTING SCHEDULE

Compliance Monitoring Report Submittal Frequency	Reporting Period (Begins on the startup date of the source.)	Report Due Date
Quarterly	January-March April-June July-September October-December	April 30 July 30 October 30 January 30
Semiannual	January-June April-September July-December October-March	July 30 October 30 January 30 April 30
Annual	January-December April-March July-June October-September	January 30 April 30 July 30 October 30
Note: This reporting schedule does not supersede any federal reporting requirements including but not limited to 40 CFR Part 60, 40 CFR Part 61, and 40 CFR Part 63. All federal reports must meet the reporting time frames specified in the federal standard unless the Department or EPA approves a change.		

H. REPORTING CONDITIONS

Condition Number	Condition
H.1	Reporting required in this permit, shall be submitted in a timely manner as directed in the Periodic Reporting Schedule of this permit.

H. REPORTING CONDITIONS

Condition Number	Condition
H.2	All reports and notifications required under this permit shall be submitted to the person indicated in the specific condition at the following address: **2600 Bull Street** **Columbia, SC 29201** The contact information for the local EQC Regional office can be found at: **http://www.scdhec.gov**
H.3	The owner/operator shall submit written notification to the Director of Engineering Services of the date construction is commenced, postmarked within 30 days after such date.
H.4	Unless elsewhere specified within this permit, all reports required under this permit shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality.
H.5	(S.C. Regulation 61-62.1, Section II.J) For sources not required to have continuous emissions monitors, any malfunction of air pollution control equipment or system, process upset or other equipment failure which results in discharges of air contaminants lasting for one hour or more and which are greater than those discharges described for normal operation in the permit application shall be reported to the Department's local Environmental Quality Control Regional office within 24 hours after the beginning of the occurrence. The owner/operator shall also submit a written report within 30 days of the occurrence. This report shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality and shall include, at a minimum, the following: 1. The identity of the stack and/or emission point where the excess emissions occurred; 2. The magnitude of excess emissions expressed in the units of the applicable emission limitation and the operating data and calculations used in determining the excess emissions; 3. The time and duration of excess emissions; 4. The identity of the equipment causing the excess emissions; 5. The nature and cause of such excess emissions; 6. The steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of such malfunction; 7. The steps taken to limit the excess emissions; and, 8. Documentation that the air pollution control equipment, process equipment, or processes were at all times maintained and operated, to the maximum extent practicable, in a manner consistent with good practice for minimizing emissions.

I. PERMIT EXPIRATION AND EXTENSION

Condition Number	Condition
I.1	(S.C. Regulation 61-62.1, Section II.A.4) Approval to construct shall become invalid if construction: a. is not commenced within 18 months after receipt of such approval; b. is discontinued for a period of 18 months or more; or

I. PERMIT EXPIRATION AND EXTENSION

Condition Number	Condition
	c. is not completed within a reasonable time as deemed by the Department. The Department may extend the construction permit for an additional 18-month period upon a satisfactory showing that an extension is justified. This request must be made prior to the permit expiration.
I.2	This provision does not apply to the time period between construction of the approved phases of a phased construction project; each phase must commence construction within 18 months of the projected and approved commencement date.

J. PERMIT TO OPERATE

Condition Number	Condition
J.1	(S.C. Regulation 61-62.1 Section II.F.2) The owner/operator or professional engineer in charge of the project shall certify that, to the best of his/her knowledge and belief and as a result of periodic observation during construction, the construction under application has been completed in accordance with the specifications agreed upon in the construction permit issued by the Department.
J.2	If construction is certified as provided in S.C. Regulation 61-62.1 Section II.F.2, the owner or operator, may operate the source in compliance with the terms and conditions of the construction permit until the operating permit is issued by the Department.
J.3	If construction is not built as specified in the permit application and associated construction permit(s), the owner/operator must submit to the Department a complete description of modifications that are at variance with the documentation of the construction permitting determination prior to commencing operation. Construction variances that would trigger additional requirements that have not been addressed prior to start of operation shall be considered construction without a permit.
J.4	(S.C. Regulations 61-62.1 Section II.F.3 and 61-62.70.7) The owner or operator shall submit a written request to the Director of the Engineering Services for a new or revised operating permit to cover any new or altered source postmarked within 15 days after the actual date of initial startup unless a more stringent time frame is required by regulation. The request should be made using the appropriate Title V modification form.

K. GENERAL CONDITIONS

Condition Number	Condition
K.1	The permittee shall pay permit fees to the Department in accordance with the requirements of S.C. Regulation 61-30, Environmental Protection Fees.

K. GENERAL CONDITIONS

Condition Number	Condition
K.2	In the event of an emergency, as defined in S.C. Regulation 61-62.1, Section II.L, the owner or operator may document an emergency situation through properly signed, contemporaneous operating logs, and other relevant evidence that verify: 1. An emergency occurred, and the owner or operator can identify the cause(s) of the emergency; 2. The permitted source was at the time the emergency occurred being properly operated; 3. During the period of the emergency, the owner or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and 4. The owner or operator gave a verbal notification of the emergency to the Department within 24 hours of the time when emission limitations were exceeded, followed by a written report within 30 days. The written report shall include, at a minimum, the information required by S.C. Regulation 61-62.1, Section II.J.1.c.i through viii. The written report shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. This provision is in addition to any emergency or upset provision contained in any applicable requirement.
K.3	(S.C. Regulation 61-62.1, Section II.O) Upon presentation of credentials and other documents as may be required by law, the owner or operator shall allow the Department or an authorized representative to perform the following: 1. Enter the facility where emissions-related activity is conducted, or where records must be kept under the conditions of the permit. 2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit. 3. Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit. 4. As authorized by the Federal Clean Air Act and/or the S.C. Pollution Control Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

L. EMISSIONS INVENTORY REPORTS - RESERVED

ATTACHMENT - Emission Rates for Ambient Air Standards

Swiss Krono SC, LLC
0300-0031-CM
PAGE 1 OF 1

The emission rates listed herein are not considered enforceable limitations but are used to evaluate ambient air quality impact. Until the Department makes a determination that a facility is causing or contributing to an exceedance of a state or federal ambient air quality standard, increases to these emission rates are not in themselves considered violations of these ambient air quality standards (see Ambient Air Standards Requirements).

AMBIENT AIR QUALITY STANDARDS - STANDARD NO. 2						
Emission Point ID	Emission Rates (lbs/hr)					
	PM_{10}	$PM_{2.5}$	SO_2	NO_x	CO	Lead
EP90.020	7.286	--	--	--	--	--
EP90.030	2.70	--	--	--	--	--
EP90.060	3.09	--	--	--	--	--
EP90.070	--	--	--	1.944	--	--
EP90.090	13.4	3.9	--	--	--	--
EP90.100	18.7	8.87	4.89	51.0	39.1	--
EP90.110	2.27	--	--	--	--	--
EP90.120	2.18	1.43	--	1.80	--	--
EP90.130	3.53	--	--	--	--	--
EP90.150	2.73	--	--	--	--	--
EP90.020	--	0.873	--	--	--	--
EP90.030	--	0.33	--	--	--	--
EP90.040	0.09	0.09	0.007	0.432	0.992	--
EP90.060	--	0.44	--	--	--	--
EP90.070	0.211	0.211	0.017	--	2.333	--
EP90.080	0.043	0.006	--	--	--	--
EP90.110	--	0.325	--	--	--	--
EP90.120	--	--	0.007	--	0.82	--
EP90.130	--	0.505	--	--	--	--
EP90.140	0.487	0.071	--	--	--	--
EP90.150	--	0.39	--	--	--	--
EP90.160	0.037	0.0053	--	--	--	--
EP90.170	0.05	0.0071	--	--	--	--
EP90.180	0.325	0.047	--	--	--	--
EP90.190	0.05	0.0071	--	--	--	--
EP90.200	0.325	0.046	--	--	--	--
EP90.210	0.81	0.12	--	--	--	--
EP90.230	0.10	0.014	--	--	--	--
FG	0.59	0.14	--	--	--	--